

HARNETT DEPARTMENT OF PUBLIC HEALTH PERMIT
TO CONSTRUCT A DRINKING WATER SUPPLY WELL

PIN #: Parcel #: 0413-77-5737.000 Application #: SFD2303-0041 Subdivision: _____ Lot #: _____

Applicant Name: Caruso Homes
Address: _____

Type of Facility Served by Well: SFD

Sewage System: Pressure Manifold to 25% REDUCTION Based on EOP Layout

Permit Conditions: Well to be drilled in Well Area After Septic System IS INSTALLED

General Permit Conditions:

- Drinking water supply well construction must meet 15A NCAC 02C.100 rules
- The permitted drinking water supply well shall be located in accordance with the **SITE PLAN**
- **ANY ALTERATION** of the site of the site (including location of structures and appurtenance) or modification in use of the well, may subject this Permit to revocation

Authorized State Agent James E. Marshall ^{PA 2845} Date 7-31-23 Expiration Date 7-31-28
* Construction Authorization Expires within five years of issue

Grouting Inspection Witnessed _____ Date _____

Grouting self-certified by driller GW-1 provided? Yes No

See attachment for construction sketch

WELL CERTIFICATE OF COMPLETION

Date: _____ Application #: _____ Well Contractor: _____

Applicant Name: _____
Address: _____
Directions to Site: _____

Use of Well: _____ Date Drilled: _____ Total Depth: _____ Replacement Well? Yes No
Static Water Level: _____ Top of Casing is _____ in. above surface. Yield: _____ gpm at _____ ft.
Disinfection: Type _____ Amount _____

Water Zone (depth)	Casing	Grout
From _____ To _____	From _____ To _____	From _____ To _____
From _____ To _____	Diameter: _____ Material: _____ Thickness: _____	Material: _____ Method: _____
From _____ To _____	From _____ To _____	From _____ To _____
	Diameter: _____ Material: _____ Thickness: _____	Material: _____ Method: _____
	From _____ To _____	From _____ To _____
	Diameter: _____ Material: _____ Thickness: _____	Material: _____ Method: _____

Inspector: _____ On Hold Date: _____ Release Date: _____

Remarks: _____

Well Head Information

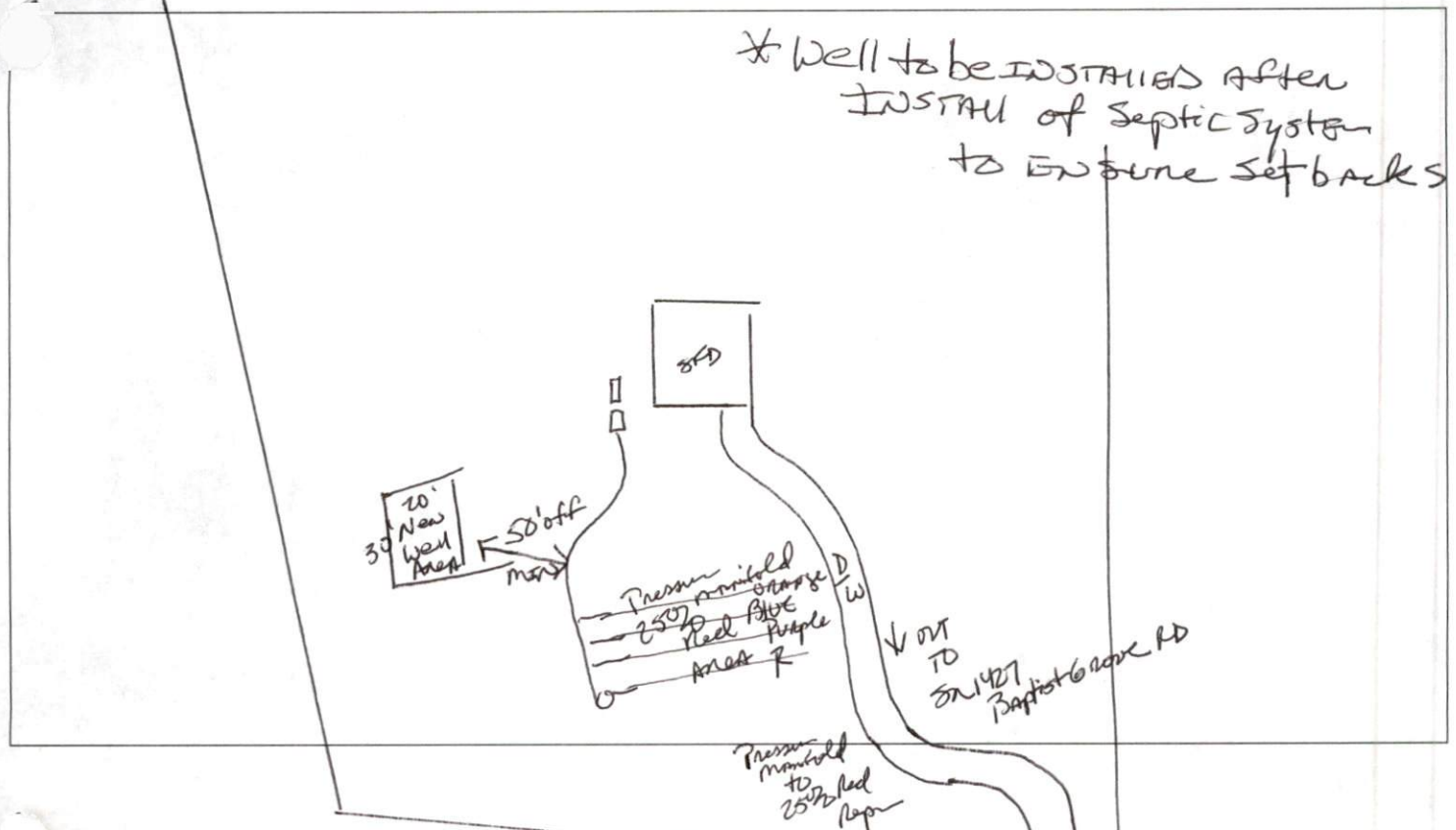
Casing Height: 12" (above finished grade) Access Port: Vent Stack:
Well ID Tag: Pump ID Tag: Sampling Tap: Backflow Preventer: _____
Sample Taken? Yes No Well Head properly sealed:

Remarks: _____

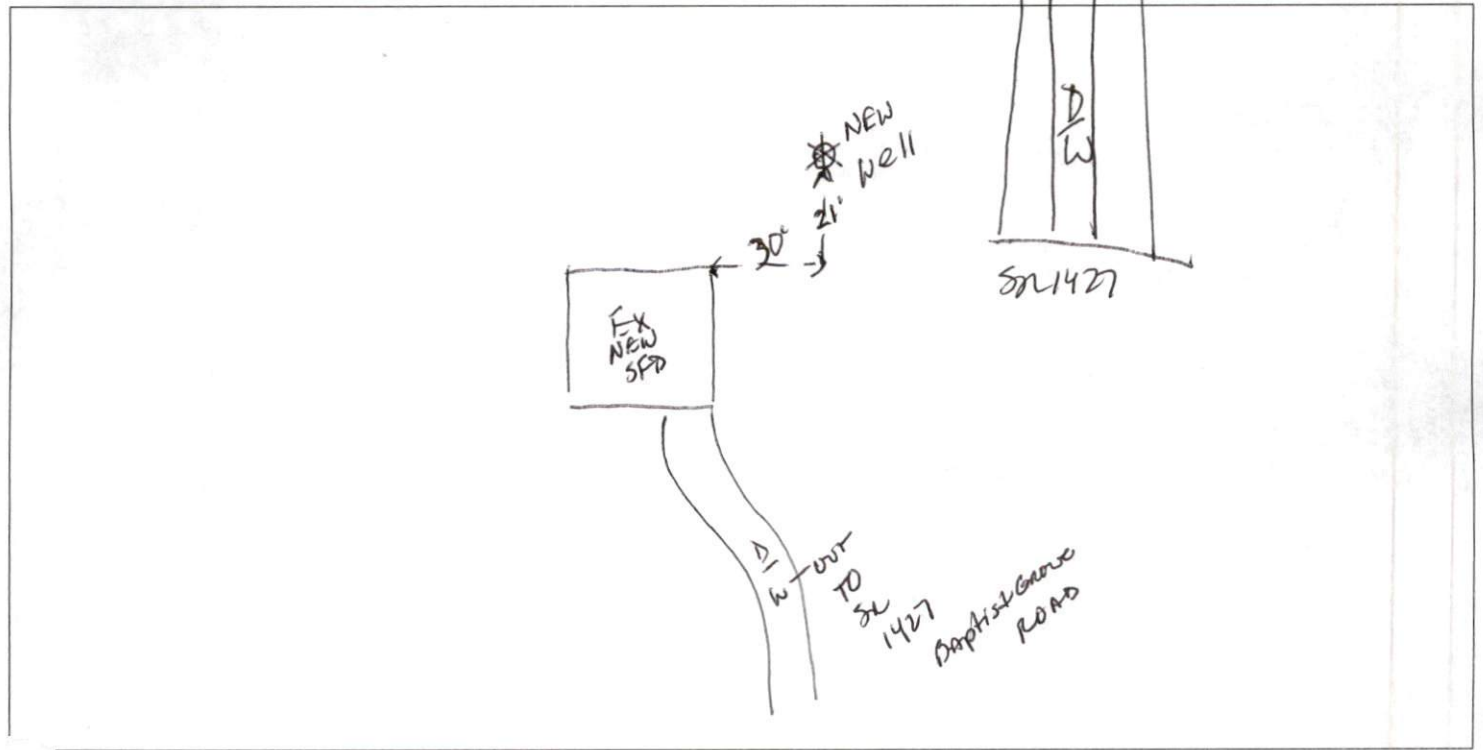
Authorized State Agent James E. Marshall ^{PA 2845} Date 10-25-23

See Attachment for completion sketch

Well Construction Sketch



1 Completion Sketch



WELL CONSTRUCTION RECORD (GW-1)

1. Well Contractor Information:

CODY ELLIOTT
 Well Contractor Name
 4420-A
 NC Well Contractor Certification Number
 CLEAR WATER DRILLING LLC
 Company Name

2. Well Construction Permit #: 2303-0041
 List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
 Agricultural Municipal/Public
 Geothermal (Heating/Cooling Supply) Residential Water Supply (single)
 Industrial/Commercial Residential Water Supply (shared)
 Irrigation

Non-Water Supply Well:
 Monitoring Recovery

Injection Well:
 Aquifer Recharge Groundwater Remediation
 Aquifer Storage and Recovery Salinity Barrier
 Aquifer Test Stormwater Drainage
 Experimental Technology Subsidence Control
 Geothermal (Closed Loop) Tracer
 Geothermal (Heating/Cooling Return) Other (explain under #21 Remarks)

4. Date Well(s) Completed: 10-20-23 Well ID# _____

5a. Well Location:
Caruso Homes
 Facility/Owner Name Facility ID# (if applicable)
1425 Baptist Grove Rd. Fuquay Varina
 Physical Address, City, and Zip
Harnett 0643-77-5737.000
 County Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
 (if well field, one lat/long is sufficient)
 _____ N _____ W

6. Is(are) the well(s) Permanent or Temporary

7. Is this a repair to an existing well: Yes or No
 If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: 1

9. Total well depth below land surface: 580 (ft.)
 For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 50 (ft.)
 If water level is above casing, use "-"

11. Borehole diameter: 6 (in.)

12. Well construction method: Air Rotary
 (i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) 2 Method of test: Air

13b. Disinfection type: ATH Amount: 1L

For Internal Use Only:

14. WATER ZONES

FROM	TO	DESCRIPTION
<u>200</u> ft.	ft.	<u>.5</u>
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
<u>+1</u> ft.	<u>-84</u> ft.	<u>6</u> in.	<u>.210</u>	<u>PVC</u>

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
<u>0</u> ft.	<u>-20</u> ft.	<u>Bentonite</u>	<u>14 bags poured</u>
ft.	ft.		
ft.	ft.		

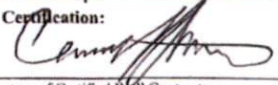
19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
ft.	ft.		
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
<u>0</u> ft.	<u>50</u> ft.	<u>Sand</u>
<u>50</u> ft.	<u>65</u> ft.	<u>Brwn Rock</u>
<u>65</u> ft.	<u>85</u> ft.	<u>Hard Rock</u>
<u>85</u> ft.	<u>120</u> ft.	<u>Hard Rock</u>
<u>120</u> ft.	<u>200</u> ft.	<u>Sand Rock</u>
<u>200</u> ft.	<u>580</u> ft.	<u>Hard Rock</u>
ft.	ft.	

21. REMARKS
Hit Fracture the Well and produced 2 gpm

22. Certification:

 Signature of Certified Well Contractor 10-20-23
 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
 You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS
 24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:
 Division of Water Resources, Information Processing Unit,
 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:
 Division of Water Resources, Underground Injection Control Program,
 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.